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Wireless telemetry system with self-contained power supply of sensors

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Abstract

A telemetry system based on wireless transmission modules is presented. It consists of several devices connected to radio network. The wireless telemetry system contains three types of devices: a network coordinator, a local radio-transmitting module and a repeater. The local radio-transmitting module (LRM) performs measuring values of signals from sensors attached to it and transmits measurement data over the air to the coordinator. Also the LRM provides self-contained power supply of the sensors. There is a consideration of the local radio-transmitting module in this paper. © 2013 IEEE.

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Keywords

data collecting, IEEE 802.15.4, sensor, wireless telemetry system, ZigBee